04C0
03/13/01
#2 OIPE

ENTERED

RAW SEQUENCE LISTING   DATE: 03/12/2001
PATENT APPLICATION: US/09/780,669   TIME: 12:09:33

Input Set : A:\427c24.app.txt
Output Set: N:\CRF3\03122001\I780669.raw

P.S

```
   3 <110> APPLICANT: Xu, Jiangchun
   4        Dillon, Davin C.
   5        Mitcham, Jennifer L.
   6        Harlocker, Susan L.
   7        Jiang, Yuqui
   8        Henderson, Robert A.
   9        Kalos, Michael D.
  10        Fanger, Gary R.
  11        Retter, Marc W.
  12        Stolk, John A.
  13        Day, Craig H.
  14        Vedvick, Thomas S.
  15        Carter, Darrick
  16        Li, Samuel
  17        Wang, Aijun
  18        Skeiky, Yasir A.W.
  19        Hepler, William
  20        Hural, John
  21        McNeill, Patricia D.
  22        Houghton, Raymond L.
  26 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
  27        DIAGNOSIS OF PROSTATE CANCER
  29 <130> FILE REFERENCE: 210121.427C24
C--> 31 <140> CURRENT APPLICATION NUMBER: US/09/780,669
  32 <141> CURRENT FILING DATE: 2001-02-09
  34 <160> NUMBER OF SEQ ID NOS: 943
  36 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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  39 <211> LENGTH: 814
  40 <212> TYPE: DNA
  41 <213> ORGANISM: Homo sapien
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  44 <221> NAME/KEY: misc_feature
  45 <222> LOCATION: (1)...(814)
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  51  ccaggggtc cagtccctct ccttacttca tccccatccc atgccaaagg aagaccctcc      180
  52  ctccttggct cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt     240
  53  tttcagctcc atccttgctg tgagtgtctg gtgcgttgtg cctccagctt ctgctcagtg     300
  54  cttcatggac agtgtccagc acatgtcact ctccactctc tcagtgtgga tccactagtt     360
  55  ctagacggc cgccaccgcg gtggagctcc agcttttgtt ccctttagtg agggttaatt     420
  56  gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca     480
  57  attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg     540
W--> 58  anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg     600
W--> 59  tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttggggc      660
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RAW SEQUENCE LISTING                    DATE: 03/12/2001
PATENT APPLICATION:   US/09/780,669     TIME: 12:09:33

Input Set : A:\427c24.app.txt
Output Set: N:\CRF3\03122001\I780669.raw
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W--> 60   tcttccgctt ctcgctcact nantcctgcg ctcggtcntt cggctgcggg gaacggtatc     720
W--> 61   actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccngg aaaaaanttt     780
W--> 62   aacaaaaggg cancaaaggg cngaaacgta aaaa                                  814
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     65 <211> LENGTH: 816
     66 <212> TYPE: DNA
     67 <213> ORGANISM: Homo sapien
     69 <220> FEATURE:
     70 <221> NAME/KEY: misc_feature
     71 <222> LOCATION: (1)...(816)
     72 <223> OTHER INFORMATION: n = A,T,C or G
     74 <400> SEQUENCE: 2
     75   acagaaatgt tggatggtgg agcacctttc tatacgactt acaggacagc agatggggaa     60
     76   ttcatggctg ttggagcaat agaaccccag ttctacgagc tgctgatcaa aggacttgga    120
     77   ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag    180
     78   aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc    240
     79   acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac    300
     80   aaggaacggg gctcgtttat caccagtgag gagcaggacg tgagcccccg ccctgcacct    360
     81   ctgctgttaa acaccccagc catcccttct ttcaaaaggg atccactagt tctagaagcg    420
     82   gccgccaccg cggtggagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt    480
     83   ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccccc    540
W--> 84   aacatacgag ccggaacata aagtgttaag cctggggtgc ctaatgantg agctaactcn    600
W--> 85   cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn    660
W--> 86   ttantgaatc ngccacccce cgggaaaagg cggttgcntt ttgggcctct tccgctttcc    720
W--> 87   tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcact cctcaaaggc    780
W--> 88   ggtntnccgg ttatccccaa acnggggata cccnga                               816
     90 <210> SEQ ID NO: 3
     91 <211> LENGTH: 773
     92 <212> TYPE: DNA
     93 <213> ORGANISM: Homo sapien
     95 <220> FEATURE:
     96 <221> NAME/KEY: misc_feature
     97 <222> LOCATION: (1)...(773)
     98 <223> OTHER INFORMATION: n = A,T,C or G
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    102   tcctgctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc    120
    103   tcctcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac    180
    104   tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca    240
W--> 105   tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc    300
    106   tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa    360
    107   gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccggtac    420
W--> 108   ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcgtt ttacaacgtc    480
    109   gtgactggga aaaccctggg cgttaccaac ttaatcgcct tgcagcacat ccccctttcg    540
W--> 110   ccagctgggc gtaatancga aaaggcccgc accgatcgcc cttccaacag ttgcgcacct    600
W--> 111   gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnggg tttngttgtt    660
W--> 112   acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcncctt    720
W--> 113   cttcccttcc tttcncncen ctttcccccg gggtttcccc cntcaaaccc cna            773
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    118 <213> ORGANISM: Homo sapien
    120 <220> FEATURE:
    121 <221> NAME/KEY: misc_feature
    122 <222> LOCATION: (1)...(828)
    123 <223> OTHER INFORMATION: n = A,T,C or G
    125 <400> SEQUENCE: 4
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    127    aatgggcaga cacaggtgta tgccaatgtt tctgaaatgg gtataatttc gtcctctcct     120
    128    tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag     180
    129    acgtgggtga ccatgttgtt tgtggggtgc agagatggga ggggtggggc ccaccctgga     240
    130    agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc     300
W--> 131    acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct     360
W--> 132    gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt     420
W--> 133    ctanagcggc cgccaccgcg gtgggactcc ancttttgtt ccctttagtg agggttaatt     480
W--> 134    gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca     540
W--> 135    attccacaca acatacganc cggaaacata aantgtaaac ctggggtgcc taatgantga     600
W--> 136    ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg     660
W--> 137    ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct     720
W--> 138    tccgcttcct cnctcantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc     780
W--> 139    accncctcca aaggggggtat tccggtttcc ccnaatccgg ggananacc               828
    141 <210> SEQ ID NO: 5
    142 <211> LENGTH: 834
    143 <212> TYPE: DNA
    144 <213> ORGANISM: Homo sapien
    146 <220> FEATURE:
    147 <221> NAME/KEY: misc_feature
    148 <222> LOCATION: (1)...(834)
    149 <223> OTHER INFORMATION: n = A,T,C or G
    151 <400> SEQUENCE: 5
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    153    agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatgtt     120
    154    attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac     180
    155    tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggt cactccaagc ttggcagtta     240
    156    acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg     300
    157    taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag     360
    158    aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga     420
    159    cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat     480
    160    tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta     540
    161    tcaccaaccc ctcagttata aaaaatttc aagttatatt agtcatataa cttggtgtgc     600
    162    ttattttaaa ttagtgctaa atggattaag tgaagacaac aatggtcccc taatgtgatt     660
W--> 163    gatattggtc atttttacca gcttctaaat ctnaactttc aggcttttga actggaacat     720
W--> 164    tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa     780
W--> 165    tgttattttg ttaaaaatta aattttaacc tggtggaaaa ataatttgaa atna           834
    167 <210> SEQ ID NO: 6
    168 <211> LENGTH: 818
    169 <212> TYPE: DNA
    170 <213> ORGANISM: Homo sapien
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RAW SEQUENCE LISTING              DATE: 03/12/2001
PATENT APPLICATION:  US/09/780,669   TIME: 12:09:33

        Input Set : A:\427c24.app.txt
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    173 <221> NAME/KEY: misc_feature
    174 <222> LOCATION: (1)...(818)
    175 <223> OTHER INFORMATION: n = A,T,C or G
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    179  aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga   120
    180  tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagttg agccaataat   180
    181  gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga   240
    182  aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagacccag   300
    183  taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgtttctta ttagactatg   360
    184  gtgagctcag gtgattgata ctcctgatgc gagtaatacg gatgtgttta ggagtgggac   420
    185  ttctagggga tttagcgggg tgatgcctgt tggggccag tgccctccta gttgggggt   480
    186  aggggctagg ctggagtggt aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga   540
    187  ggtaataaat aggattatcc cgtatcgaag gccttttgg acaggtggtg tgtggtggcc   600
    188  ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg   660
W--> 189  ttantanggc ctantatgaa gaactttggg antggaatta aatcaatngc ttggccggaa   720
W--> 190  gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnacccat   780
W--> 191  ggaatncncc ccccggacna ntgnatccct attcttaa                            818
    193 <210> SEQ ID NO: 7
    194 <211> LENGTH: 817
    195 <212> TYPE: DNA
    196 <213> ORGANISM: Homo sapien
    198 <220> FEATURE:
    199 <221> NAME/KEY: misc_feature
    200 <222> LOCATION: (1)...(817)
    201 <223> OTHER INFORMATION: n = A,T,C or G
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    205  cgggccctat ttcaaagatt tttaggggaa ttaattctag dacgatgggt atgaaactgt   120
    206  ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcggtga   180
    207  aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaat gtggggacag   240
W--> 208  ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga   300
    209  gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg   360
    210  gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc   420
    211  attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa   480
W--> 212  aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt   540
W--> 213  tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt   600
W--> 214  gaatnttnng gaaaagggct tacaggacta gaaaccaaat angaaaanta atnntaangg   660
W--> 215  cnttatcntn aaaggtnata accnctccta tnatcccacc caatngnatt ccccacncnn   720
W--> 216  acnattggat ncccanttc canaaanggc cncccccgg tgnannccnc cttttgttcc   780
W--> 217  cttnantgan ggttattcnc ccctngcntt atcancc                             817
    219 <210> SEQ ID NO: 8
    220 <211> LENGTH: 799
    221 <212> TYPE: DNA
    222 <213> ORGANISM: Homo sapien
    224 <220> FEATURE:
    225 <221> NAME/KEY: misc_feature
    226 <222> LOCATION: (1)...(799)
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RAW SEQUENCE LISTING   DATE: 03/12/2001
PATENT APPLICATION: US/09/780,669   TIME: 12:09:33

Input Set : A:\427c24.app.txt
Output Set: N:\CRF3\03122001\I780669.raw

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        231  cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt     120
        232  ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catccgcgag     180
        233  tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg     240
W--> 234  tgggtggccg angcctganc cgctctgcct tgctgccccc angtgggccg ccaccccctg     300
W--> 235  acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac ccccacangg     360
W--> 236  ggattttgct cctanantaa ggctcatctg ggcctcggcc cccccacctg gttggccttg     420
W--> 237  tctttgangt gagccccatg tccatctggg ccactgtcng gaccaccttt ngggagtgtt     480
W--> 238  ctccttacaa ccacannatg cccggctcct cccggaaacc antcccancc tgngaaggat     540
W--> 239  caagncctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt     600
W--> 240  tccttttcnt tnagggttaa tnncgccttg gccttnccan ngtcctncnc ntttccnnt      660
W--> 241  gttnaaattg ttangcnccc nccnntcccn cnncnncnan cccgacccnn annttnnann     720
W--> 242  ncctgggggt nccnncngat tgacccnncc nccctntant tgcnttnggg nncnntgccc     780
W--> 243  ctttccctct ngggannng                                                  799
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        246 <211> LENGTH: 801
        247 <212> TYPE: DNA
        248 <213> ORGANISM: Homo sapien
        250 <220> FEATURE:
        251 <221> NAME/KEY: misc_feature
        252 <222> LOCATION: (1)...(801)
        253 <223> OTHER INFORMATION: n = A,T,C or G
        255 <400> SEQUENCE: 9
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        258  caaggacaag gccaccaggt gcgggggccg aagcccacat gatccttact ctatgagcaa     180
W--> 259  aatcccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang     240
W--> 260  caggtcatgg ggttgtngnc caactggggg ccncaacgca aaanggcnca gggcctcngn     300
W--> 261  cacccatccc angacgcggc tacactnctg gacctcccnc tcaccactt tcatgcgctg     360
W--> 262  ttcntacccg cgnatntgtc ccanctgttt cngtgccnac tccancttct nggacgtgcg     420
W--> 263  ctacatacgc ccggantcnc nctcccgctt tgtccctatc cacgtnccan caacaaattt     480
W--> 264  cnccntantg caccnattcc cacntttnnc agntttccnc nncgngcttc cttntaaaag     540
W--> 265  ggttganccc cggaaaatnc cccaaagggg gggggccngg tacccaactn ccccctnata     600
W--> 266  gctgaantcc ccatnaccnn gnctcnatgg anccntccnt ttctnaacnt ttctnaactt     660
W--> 267  gggaanancc ctcgnccntn cccccnttaa tcccncccttg cnangnncnt ccccccnntcc     720
W--> 268  ncccnnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnncn cctcanttcg     780
W--> 269  ccancccctcg aaatcggccn c                                              801
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        272 <211> LENGTH: 789
        273 <212> TYPE: DNA
        274 <213> ORGANISM: Homo sapien
        276 <220> FEATURE:
        277 <221> NAME/KEY: misc_feature
        278 <222> LOCATION: (1)...(789)
        279 <223> OTHER INFORMATION: n = A,T,C or G
        281 <400> SEQUENCE: 10
W--> 282  cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cggtgccaca tgcctgtccc      60
```

FYI

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.**

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```
               VERIFICATION SUMMARY            DATE: 03/12/2001
               PATENT APPLICATION:  US/09/780,669    TIME: 12:09:34

               Input Set : A:\427c24.app.txt
               Output Set: N:\CRF3\03122001\I780669.raw

L:31  M:270 C: Current Application Number differs, Wrong Format
L:58  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:59  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:61  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:84  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:85  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:86  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:87  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:88  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
```

BEST AVAILABLE COPY

VERIFICATION SUMMARY   DATE: 03/12/2001
PATENT APPLICATION: US/09/780,669   TIME: 12:09:34

Input Set : A:\427c24.app.txt
Output Set: N:\CRF3\03122001\I780669.raw

L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9